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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/920,340	08/01/2001	Leonard W. Kaplan	9500-0001	4115
23980	7590	11/14/2003	EXAMINER	
REED & EBERLE LLP 800 MENLO AVENUE, SUITE 210 MENLO PARK, CA 94025			BAHAR, MOJDEH	
			ART UNIT	PAPER NUMBER
			1617	16
DATE MAILED: 11/14/2003				

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/920,340

Applicant(s)

KAPLAN ET AL.

Examiner

Mojdeh Bahar

Art Unit

1617

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 09 September 2003.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 51-53,55,75 and 77-116 is/are pending in the application.

4a) Of the above claim(s) 80-83 is/are withdrawn from consideration.

- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 51-53,55,75,77-79 and 84-116 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☒ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 09 September 2003 has been entered.

Claims 51-53, 55, 75, 77-79 and 84-116 are herein examined on the merits in so far as they read on the elected species.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 51-53, 55, 75, 77-79 and 84-116 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sequiera et al. (USPN 5,837,699) in view of Maxair inhaler in PDR.

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Sequiera et al. (USPN 5,837,699) teaches a method of treating allergic and/or inflammatory diseases of the lower airway passages and/or lungs such as asthma and rhinitis by administering the corticosteroid mometasone furoate (anhydrous mometasone furoate or mometasone furoate momhydrate) intra-nasally or via oral inhalation, see col. 2, lines 20-54, col. 3, lines 24-50, col.5, line 55-56. Sequiera et al. (USPN 5,837,699) further teaches that mometasone furoate can be employed as adjuvant therapy with bronchodilators, see col. 5, lines 5-17. Sequiera et al. (USPN 5,837,699) also teaches the incorporation of its formulation into dry powder aerosolized metered-dose inhaler in which propellants such as chlorofluorocarbons, non-chlorofluorocarbons and fluorocarbon, pharmaceutically acceptable carrier such as lactose are employed at a dosage of 10-5000 mcg/day, see col. 5, lines 18-45, see also claims 3-21. Sequiera et al. (USPN 5,837,699) teaches that its formulations can also be administered in the form of an aqueous suspension with conventional pharmaceutical excipients at a dose of 50-1600 mcg/day, see col. 10, lines 7-22 and col. 5 line 46-col. 6 line 18.

Sequiera et al. (USPN 5,837,699) does not particularly teach the incorporation of pirbuterol acetate in its composition employed in a method of treating allergic and/or inflammatory diseases of the lower airway passages and/or lungs such as asthma and rhinitis. Neither does Sequiera teach the incorporation of its pharmaceutical composition into a capsule.

Maxair inhaler in PDR teaches a pirbuterol acetate bronchodilator aerosol, a known beta-2 adrenergic receptor agonist, employed in a method of treating asthma and preventing bronchospasm at a dosage of 200-400 mcg/day. Maxair inhaler in PDR also teaches that its inhaler can be employed concurrent with steroid therapy.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to employ pirbuterol acetate in a composition comprising the corticosteroid mometasone furoate, employed in a method of treating allergic and/or inflammatory diseases of the lower airway passages and/or lungs such as asthma and rhinitis.

One of ordinary skill in the art would have been motivated to employ pirbuterol acetate in a composition comprising the corticosteroid mometasone furoate, employed in a method of treating allergic and/or inflammatory diseases of the lower airway passages and/or lungs such as asthma and rhinitis because both mometasone furoate and pirbuterol acetate are known to be employed in treating allergic and/or inflammatory diseases of the lower airway passages and/or lungs such as asthma and rhinitis. Combining two agents which are known to be useful to treat asthma individually into a single composition useful for the very same purpose is prima facie obvious. See *In re Kerkhoven* 205 USPQ 1069. Optimization of amounts and intra-conversion of dosage forms are within the skill of the artisan and are therefore obvious.

Response to Arguments

Applicant's arguments filed September 9, 2003 have been fully considered but they are not persuasive. Applicant first argues that the two references do not teach a short-acting bronchodilator and a corticosteroid in a single formulation. Note that the prior art references herein all show that co-administration of corticosteroids with short acting bronchodilators is useful in treating respiratory diseases. Assuming *arguendo* that co-administration requires the existence of two actives in two separate formulations, note that the intraconversion of dosage forms (e.g., two actives in a single formulation or two actives in two separate formulations) is within the purview of the skilled artisan. Furthermore, what applicant points out is a distinction

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without a difference since the pharmacological properties and the therapeutic effects of the actives do not change simply because they are co-administered in two different formulations or administered a single formulation.

Applicant argues that the case at bar is distinguishable from *In re Kerkhoven* because the two agents herein (corticosteroid and bronchodilator) are not employed for the same purpose. 205 USPQ 1069, 1072 (CCPA 1980). Note that *In re Kerkhoven* stands for the proposition that combining components to achieve a particular result is *prima facie* obvious where each component is individually known to achieve the same result. The Court states that “The idea of combining them (the two components) flows logically from their having been individually taught in the prior art” *Id.* Here, the idea of combining a corticosteroid with a bronchodilator flows from their having been individually taught in the prior art as agents known to be useful in treating asthma.

Applicant further argues that the instant invention is non-obvious, relying on Dr. Kaplan’s declaration submitted under 37 CFR 1.132. Applicant’s remark along with Dr. Kaplan’s declaration will be addressed together herein. Dr. Kaplan’s declaration has been carefully considered, but is not persuasive to remove the obviousness rejection herein.

COMPLIANCE (issues (i) and (iii)): Dr. Kaplan first states that administering corticosteroids and bronchodilators in two separate formulations leads to patient non-compliance and that a combined formulation improves patient compliance. Note that it is indeed expected that combined formulations improve compliance given that the patient can more conveniently administer two drugs at once. Note that this is not unexpected in the pharmaceutical arts.

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DISADVANTAGES OF ADMINISTERING CORTICOSTEROIDS WITH LONG-ACTING BRONCHODILATORS (ii): Note that all claims herein are drawn to short-acting bronchodilators and a corticosteroid, therefore the disadvantages of employing corticosteroids along with a long acting bronchodilators, i.e., ADVAIR is not relevant to the case at bar.

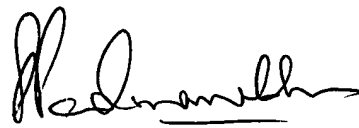
THE CLAIMED COMBINATION (iv): In his declaration, Dr. Kaplan states that corticosteroids have never been administered simultaneously with short acting bronchodilators, see declaration page 3 first paragraph. Note that VENTIDE, a pharmaceutical combination composition comprising salbutamol (a short acting bronchodilator) and beclamethasone dipropionate (a corticosteroid) is known to be useful in treating asthma, see enclosed patient insert.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mojdeh Bahar whose telephone number is (703) 305-1007. The examiner can normally be reached on (703) 305-1007 on Monday, Tuesday, Thursday and Friday from 8:30 a.m. to 6:30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sreeni Padmanabhan, can be reached on (703) 305-1877. The fax phone number for the organization where this application or proceeding is assigned is (703) 308-4556.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1235.

Mojdeh Bahar
Patent Examiner
March 17, 2003


SREENI PADMANABHAN
SUPERVISORY PATENT EXAMINER

11/14/03